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APPLICATION NO.	FILIN	IG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/088,369	69 12/23/2002		George E. Lee	HMR 2021 US PCT	1765
5487	7590	02/25/2005		EXAMINER	
ROSS J. C			SACKEY, EBENEZER O		
AVENTIS	PHARMACE	UTICALS INC.			D + 900 > 11 0 40 ED
ROUTE 20	2-206		ART UNIT	PAPER NUMBER	
MAIL COI	DE: D303A		1626		
BRIDGEW	ATER, NJ (8807		D. TT. M. H. ED. 02/25/200	_

DATE MAILED: 02/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/088,369	LEE ET AL.				
	Office Action Summary	Examiner	Art Unit				
		EBENEZER SACKEY	1626				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a repl period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timy within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)	Responsive to communication(s) filed on						
2a)	•	– s action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)⊠ 6)⊠ 7)□	4) ⊠ Claim(s) 1-109 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ⊠ Claim(s) 1-77,80-83,92-97 and 104-109 is/are allowed. 6) ⊠ Claim(s) 78,79,84-91 and 98-103 is/are rejected.						
Applicati	ion Papers						
9) The specification is objected to by the Examiner.							
10)) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 1) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
	under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
Attachment	• •	, .					
2) 🔲 Notic 3) 🔲 Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:					

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DETAILED ACTION

Status of Claims

Claims 1-109 are pending.

Specification

The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 78-79, 84-91 and 98-103 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains

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subject matter, which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The scope of treating all the disorders generically and particularly embraced in these claims are not adequately enabled. While testing disclosed in the specification shows representative compounds are selective D₄ antagonists, such activity is not art-recognized for all disorders embraced herein, which includes substance abuse, substance dependence, conduct disorder, oppositional defiant disorder etc. See Van Tol, who discusses a correlation only for schizophrenia and Parkinson's disease.

For the scope of "treating substance abuse" alone there is no enabling disclosure. The notion that a compound could be effective against chemical dependencies in general is contrary to our current understanding of how chemical dependencies operate. There is not, and probably never will be, a pharmacological treatment for "substance abuse or dependence" generally. That is because "substance abuse or dependence" is <u>not</u> a single disease or cluster of related disorders, but in fact, a collection with relatively little in common. Addiction to barbiturates, alcolhol, cocaine, opiates, amphetamines, benzodiazepines, nicotine etc., all involve different parts of the CNS system and different receptors in the body. For example, cocaine binds at the dopamine re-uptake site. Heroin addiction, for example, arises from binding at the opiate receptors, cigarette addiction from some interaction at the nicotinic acid receptors, many tranquilizers involve the benzodiazepine receptor, alcohol involves yet another system etc. All attempts to find a pharmaceutical to treat chemical addictions

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generally have thus far failed. See Newman, provided with this action. For additional uses, a search in Medline yielded no pertinent hits when linked to D₄ antagonists.

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Where the utility is unusual or difficult to treat or speculative, the Examiner has authority to require evidence that tests relied on are reasonably predictive of *in vivo* efficacy by those skilled in the art. See for example, *In re Ruskin*, 148 USPQ 221; *Ex parte Jovanovics*, 211 USPQ 907. Also note MPEP. 2164.05(a).

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 78, 100 and 102 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

1. The scope of intended uses of claim 78 is indeterminate since it reads on diseases not yet known to be affected by dopamine receptors or in ways not yet understood. How does one determine a host who is "in need" vs. one who is not? One may have no visible symptoms and still be in need. It may turn out with further research that everyone is in need of such inhibition or antagonism. How can one be sure that any use of compounds being claimed does not infringe claim 78. Such uncertainty in scope does not comply with the second paragraph of 35 USC 112. Additionally, what "success rate" determines if a particular inhibitor is effective and how many patients (and dosage regimen) need to be tested? Does a negative response

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from one patient mean the drug isn't useful as no drug has 100% effectiveness? The test for determining compliance with 35 U.S.C 112, paragraph two is whether applicants have clearly defined "their" invention not what may be discovered by feature research as this type of language clearly requires.

2. Method claims 100 and 102 are unclear as to intended scope, as the terms are not art-recognized diseases. Thus, it is not known what is being covered by conduct and oppositional defiant disorders.

Commonly assigned WO '833 is, cited to show the state of the art. The cited reference requires a hydroxyl substitution on the alkylene chain, i.e., C_{2-3} alkylene- $N(R_1)(R_2)$ which is not permitted herein.

Claims 1-77, 80-83, 92-97 and 104-109 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to E. Sackey whose telephone number is (571) 272-0704.

The examiner can normally be reached on Monday-Friday from 7:30 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph K. McKane, can be reached on (571) 272-0699. The fax phone number for this Group is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is

(571) 272-1600.

EOS

February 18, 2005

ERRLY SERNHARDT

PRIMARY EXAMINER

GROUP # 1600